

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2004/019714

A. CLASSIFICATION OF SUBJECT MATTER
Int.Cl' C12N5/10, C12N15/12, A61K35/26, A61P35/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
Int.Cl' C12N5/10, C12N15/12, A61K35/26, A61P35/00

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
JSTPlus, WPI (DIALOG), BIOSIS (DIALOG), PUBMED

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	Marimo SATO et al., "Jujo Saibo o Mochiita Saibo Men'eki Ryoho DC1/DC2 ni yoru Th1/Th2 Balance no Seigyo to Gan Chiryo eno Oyo", Igaku no Ayumi (2000), Vol.195, No.1, pages 3 to 8	1-19
Y	Koji NISHIMURA, "Gan Men'eki Ryoho ni okeru Th1/Th2 Saibo no Yakuwari Shorai no Chiryo Hatten ni Mukatte", Cancer therapy & host (2000), Vol.12, No.4, pages 363 to 373	1-19
Y	Koji NISHIMURA, "Jujo Saibo Subset (DC1) to Th1 Saibo o Mochiita Atarashii Gan Vaccine Saibo Chiryo", Clinical Immunology (2002), Vol.38, No.4, pages 363 to 369	1-19

 Further documents are listed in the continuation of Box C. See patent family annex.

* Special categories of cited documents:

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier application or patent but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search
07 March, 2005 (07.03.05)Date of mailing of the international search report
22 March, 2005 (22.03.05)Name and mailing address of the ISA/
Japanese Patent Office

Authorized officer

Facsimile No.

Telephone No.

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	Koji NISHIMURA, "Jujo Saibo Subset (DC1) to Th1 Saibo o Mochiita Atarashii Gan Vaccine Saibo Chiryo", Igaku no Ayumi(2002), Vol.200, No.6, pages 481 to 486	1-19
Y	Hirokichi KIKUCHI, "Gan Chiryo Hito Jika Gan Kyozetsu no Men'ekiigakuteki Bunshi Kiko", Monbusho Kagaku Kenkyuhi Hojokin ni yoru Gan Juten Kenkyu Hokokushu Roku, Heisei 8 Nendo Gan Kenkyu ni kakaru Juten Ryoiki Kenkyu (Gan Juten) (1997), pages 525 to 528	1-19
Y	Ko KINEBUCHI et al., "Gan Tokuiteki TCR o Mochiita Men'eki Idenshi Chiryo", Hematology & Oncology (1999), Vol.38, No.1, pages 22 to 29	1-19
Y	JEANNIN P. et al., IL-12 Synergizes with IL-2 and other stimuli in inducing IL-10 production by human T cells, J.Immunol.(1996), Vol.156, pages 3159 to 3165	6,14

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Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. Claims Nos.: 20-21

because they relate to subject matter not required to be searched by this Authority, namely:

The inventions as set forth in claims 20 to 21 are relevant to diagnostic methods to be practiced on the human body or methods for treatment of the human body by therapy and thus relate to a subject matter which this International Searching Authority is not required, (continued to extra sheet)

2. Claims Nos.:

because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:

3. Claims Nos.:

because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box No. III Observations where unity of invention is lacking (Continuation of Item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
4. No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

The additional search fees were accompanied by the applicant's protest.
 No protest accompanied the payment of additional search fees.

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Continuation of Box No.II-1 of continuation of first sheet(2)

under the provisions of Article 17(2)(a)(i) of the PCT and Rule 39.1(iv) of the Regulations under the PCT, to search.